

Recombinant Human acyl-CoA dehydrogenase family, member 8, His-tagged

Cat. No. ACAD8-338H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACAD8, 23-415aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	23-415 a.a.
Description	ACAD8 is a member of the acyl-CoA dehydrogenase family of enzymes that catalyze the dehydrogenation of acyl-CoA derivatives in the metabolism of fatty acids or branch chained amino acids. The protein is a mitochondrial enzyme that functions in catabolism of the branched-chain amino acid valine. Defects in this gene are the cause of isobutyryl-CoA dehydrogenase deficiency. Recombinant human ACAD8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	45.1kDa (416aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSLVQTGHR SLTSCIDPSM GLNEEQKEFQ KVAFDFAARE MAPNMAEWDQ KELFPVDVMR KAAQLGFGGV YIQTDVGGSG LSRLDTSVIF EALATGCTST TAYISIHNC AWMIDSFGNE EQRHKFCPPL

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CTMEKFASYC LTEPGSGSDA ASLLTSAKKQ GDHYILNGSK AFISGAGESD
IYVVMCRTGG PGPKGISCIV VEKGTPLSLF GKKEKKVGWN SQPTRAVIFE
DCAVPVANRI GSEGQGFLIA VRGLNGGRIN IASCSLGAAH ASVILTRDHL
NVRKQFGEPL ASNQYLQFTL ADMATRLVAA RLMVRNAAVA LQEERKDAVA
LCSMAKLFAT DECFAICNQA LQMHGGYGYL KDYAVQQYVR DSRVHQILEG
SNEVMRILIS RSLQEQ

Purity >95% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name ACAD8 acyl-CoA dehydrogenase family, member 8 [Homo sapiens]

Official Symbol ACAD8

Synonyms ACAD8; acyl-CoA dehydrogenase family, member 8; acyl Coenzyme A dehydrogenase family, member 8; isobutyryl-CoA dehydrogenase, mitochondrial; activator-recruited cofactor 42 kDa component; acyl-Coenzyme A dehydrogenase family, member 8; ARC42; ACAD-8;

Gene ID 27034

mRNA Refseq NM_014384

Protein Refseq NP_055199

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MIM	604773
UniProt ID	Q9UKU7
Chromosome Location	11q25
Pathway	Branched-chain amino acid catabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Valine, leucine and isoleucine degradation, organism-specific biosystem; Valine, leucine and isoleucine degradation, conserved biosystem; valine degradation I, organism-specific biosystem;
Function	acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase activity; flavin adenine dinucleotide binding;

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